AMHERST INSPECTION SERVICES

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PLAN REVIEW CHECK LIST FOR CONSTRUCTION CONTROL PROJECTS

COVER SHEET

Name, Address and Telephone # of Architect
Site Address
Building & Mechanical Codes used
Building Construction Type
Existing Use of Building
Proposed Use of Building
Change of Hazard Index
Height and Area of building
Number of Stories
Height, Story and Area Limits as per Code
Increase in Height and Area - cite code sections used
Occupancy Load-Total
    By Floor
    Assembly/Special Use Areas
Egress Analysis
Exterior Wall - Fire grading
If Chapter 34 Analysis is required-what section
Mixed use - separated, non-separated or separate building (fire wall)

SITE PLAN

Building Footprint with location of fire department connection on building
Water supply available for fire protection
Type of supply: water main____, Size____, Location
    On site storage____, Capacity_____(Gallons)
    Other_____
Fire Flow Test location
    Flow _____, Pressure _____, Date _____, Time _____
Flow Test (for each location)
Flow Chart (for each location)
Location of hydrants
    Spacing between hydrants
    Distance from hydrants to building
    Distance between fire dept. connection on building and hydrant

SITE PLAN – Cont.

Fire Department Access

- Public street width
- On site street or fire lane width
- Turn radius
- Dead end access (y)___ (n)____ Turn around size_____
- Access grades
- Height of overhead obstructions_____
- Max distance between building exterior and access roadway

Distance to adjacent buildings
AAB accessibility from building egress to public way or safe courtyard (grades and location)

ARCHITECTURAL PLANS/STRUCTURAL PLANS

Required fire grading or separation:

- Special requirements for specific areas i.e furnace rooms, storage areas etc.
- Exterior wall requirements: Load bearing____ Non-load bearing_____
- Opening protection in exterior walls
- Interior: Columns, girders, trusses, interior bearing walls
  - Tenant separation
  - Floor construction
  - Roof construction
  - Roof covering
  - Egress stairs, corridors etc
  - Shafts
- Interior flame spread: walls, ceilings floors
- Fire Walls
- Exit Enclosure
- Exit corridor enclosure
- Smoke partition
- Door openings
- Window openings
- Penetrations
- Firestopping
- Draftstopping
- Dampers: smoke or fire, access to dampers

Note: all assemblies required to be fire rated must be shown on plans in a detail with the number from an approved testing agency. This includes but is not limited to through penetrations and

joints such as those at ceiling and floor connections with walls.

ARCHITECTURAL PLANS/STRUCTURAL PLANS

Does the building have a sprinkler system? Total_____ Partial____ Type____
- Stand pipe locations
- Sprinkler locations
- Annunciator panel location

Portable fire extinguishers: number, location, travel distance between locations, classification

Egress: Arrangement and # from each area:
- Common path of travel
- Dead end
- Remoteness of exit location

Capacity:
- Exit access corridor width
- Stairs
- Doorways leading to exit
- Units of exit capacity

Exit discharge
- Discharge to outside
- Discharge to public way

Travel distance:
- Within rooms
- Room door to exit
- Total travel distance to exit

Exit stairs:
- Width
- Tread width
- Riser height Solid (?)
- Handrails: height Continuous guard spacing
- Landings - minimum dimensions
- Headroom
- Construction - support details

Doors:
- Width
- Swing
- Hardware - handles, locks, hold open devices, smoke control,
- Fire rating

Horizontal Exits:
- Floor area on either side
- Bridges or balconies

Walls - fireresistive construction rating
Door swing

ARCHITECTURAL PLANS/STRUCTURAL PLANS

Egress:
- Outside stairs:
  - Separation and protection
  - Visual enclosure
  - Treads, risers-height, width, depth, solid
  - Rails
- Ramps: Width
  - Slope
  - Rails, edge protection
- Lighting:
  - Exit signs
  - Emergency lighting
- Special considerations:
  - Atriums
  - High rise
  - Escalators

STRUCTURAL

Foundation
Seismic
Chap. 34 review (existing buildings)
Sizing & spacing of beams, columns, joists
Connection details
Wall construction details
Ceiling & floor construction details
Stairwell construction
Support and loading requirements for mechanicals - vibration to be factored in any special loading requirements

MECHANICAL

Vents, Chimneys, Flues:
- Type or classification
- Termination above roof
- Clearances to combustible construction
- Fire dampers required in
  - Rated wall assemblies
  - Rated ceiling/floor assemblies
- Smoke dampers - alarms required

Heating Equipment:
- Combustion air required-where is it coming from
- Clearances to combustibles
- Type of Fuel source
- Listed equipment used
- Proper location
- Special ventilation

Air Handling:
- Ducts of approved materials
- Does common space above ceiling meet requirements for plenum use?
- Are corridors being used for return air?
- Is stairwell pressurization required?
- Where is supply air from?
- Exhaust only system
- Supply and return system
- CFM of supply and exhaust - are smoke detectors required in line
- CFM required for occupancy
- Is the key clear & does it correspond to the plan?
- Fire Dampers in rated assemblies
- Smoke dampers if required

Automatic Extinguishing Systems:
- Type required
- Extent of protection
- In concealed spaces
- Full Extinguishing system plans must be provided
- Alarming required

Smoke Control - (if required) - engineering, required air exchange, etc.

Seismic restraint requirements

Illumination of means of Egress:

Normal
Emergency - Power source
Connection location
Interior
Exterior (to public way)

Exit Signs: Normal
Emergency - power source

Emergency Power: Type Provided
Fire alarm
Fire pump
Elevators
Smoke control (if required)
Stairwell pressurization (if required)
Protected construction (if required)

Fire Alarm & Detection:

Pull station location
Location of audible signaling device
Location of visual signaling device
Type of automatic detection shown
Location and spacing of detection devices
Interface with extinguishing system
Agent flow control
Control valve supervision
Operation of alarm (i.e., pre-signal)
Fire alarm control panel location
Annunciation panel required location
Zoning of panel required
Off site alarm supervision required
Trouble supervision of system required
Power supply required
All Equipment and devised listed and approved

ELECTRICAL

Emergency Control System where required:

- Automatic door closer controls
- Elevator recall
- Elevator fire fighter control key
- Fire fighter control center
- Fire fighter communication system
- Smoke Control and removal system controls
- HVAC automatic shutdown and controls
- Stairwell pressurization
- Stairwell and exit electric door lock controls
- Fire pump controls
- Generator controls
- Emergency fuel shutoff controls

Is the Generator (if used) listed for emergency back-up power?

Seismic requirements

PLUMBING (248 CMR)

Minimum Facilities Required. Section 2.10 (18 & 19) & Table 1
Plumbing fixtures
Potable Water Supply to Building
Sanitary Drainage System
Backwater Valves
Vents
Mechanical venting
Hangers and supports (include seismic requirements)
Materials used
Special considerations/requirements (i.e. medical)

AAB REGULATIONS (521 CMR)

Access
Emergency Signals
Site considerations
Signage
Bathrooms
Phones
Drinking Fountains
Door hardware
Ramps & Stairs
Rails
Changing areas

NARRATIVES REQUIRED

Chapter 34 Structural Review
Alternative Systems used (Appendix F)
Fire protection Systems (Chap. 9)
Required Structural Testing during Construction **see Chapter 17**
Required Architectural/Structural Site inspections during construction **see Chapter 17**

FINAL PLANS MUST BE CONSTRUCTION DOCUMENTS
(NOT PRELIMINARY) AND MUST BE WET STAMPED